

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Original): A device for selecting a coding mode for a video encoding system, comprising:
 - a first memory for storing frame data of an input image;
 - a second memory for storing the previous frame data;
 - a motion prediction part for comparing the present input frame data stored in the first memory with the previous frame data stored in the second memory to detect a SAD (sum of absolute pixel differences) value; and
 - an SAD examiner for generating coding selection information for coding the frame data in an intra-coding mode when the SAD value of the input frame data output from the motion prediction part exceeds a predetermined SAD threshold, or in an inter-coding mode when the SAD value of the input frame data does not exceed the predetermined SAD threshold.

2. (Original): A coding mode selecting method in which an SAD value between input frames is used in a video encoding system, the coding mode selecting method comprising the steps of:
 - detecting the SAD value of input frame data;
 - determining whether the detected SAD value exceeds a predetermined SAD threshold;

coding the input frame in an intra-coding mode when the SAD value of the input frame exceeds the SAD threshold; and

coding the input frame in an inter-coding mode when the SAD value of the input frame does not exceed the SAD threshold.

3. (Original): A device for selecting a coding mode for a video encoding system, comprising:

a motion prediction part for comparing data of a present input frame with data of a previous frame to detect a SAD (sum of absolute pixel differences) value; and

an SAD examiner for generating coding selection information for coding the frame data in an intra-coding mode when the SAD value of the input frame data output from the motion prediction part exceeds a predetermined SAD threshold, or in an inter-coding mode when the SAD value of the input frame data does not exceed the predetermined SAD threshold.

4. (New): The device as claimed in claim 1, wherein the SAD examiner receives a plurality of SAD values of the present input frame data and the SAD examiner generates the coding selection information after the plurality of SAD values of the present input frame data are received.

5. (New): The device as claimed in claim 4, wherein each of the plurality of SAD values of the present input frame data are compared with the predetermined SAD threshold to code the input frame data in one of the intra-coding mode and the inter-coding mode.

6. (New): The coding mode selecting method as claimed in claim 2, wherein the step of detecting comprises detecting a plurality of SAD values of the input frame data and receiving the plurality of SAD values of the input frame data and the step of determining whether the detected SAD value exceeds the SAD threshold is carried out after receiving the plurality of SAD values.

7. (New): The device as claimed in claim 3, wherein the SAD examiner receives a plurality of SAD values of the present input frame data and the SAD examiner generates the coding selection information after the plurality of SAD values of the present input frame data are received.